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<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/816,322	TURSI ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	My-Trang N. Ton	2816	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Admt. filed 7/28/05 and Tel. Int. 9/30/05.
2. ☒ The allowed claim(s) is/are 1-22.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

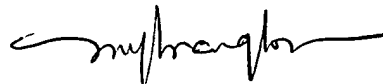
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

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|---|---|
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date <u>9/30/05</u>.</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____.</li> </ol> |
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**MY-TRANG N. TON**  
**PRIMARY EXAMINER**

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Att. Gaffney on September 30, 2005.

The application has been amended as follows:

#### **In the claims**

In claim 1, last paragraph, line 3, after "first sample-and-hold channel," , replace "and wherein the first hold switch circuit is configured to be open during the sample phase for the first sample and hold channel" with – the first sampling switch circuit is configured to be open during a hold phase for the first sample-and-hold channel, the first holding switching circuit is configured to be closed during the hold phase for the first sample-and-hold channel, a sample voltage is sample at the second node during the sample phase for the first sample-and-hold channel, and wherein the voltage at the second node is substantially equal to the sample voltage during the hold phase for the first sample-and-hold channel --.

In claim 21,

line 5, after ":", delete "and";

last paragraph, replace "." with -- ; and --;

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after last paragraph, insert – a boost circuit that is coupled to the sample-and-hold circuit, wherein the boost circuit is capable of providing a boosted voltage that exceeds a power supply voltage --.

In claim 22, last line, after “channel”, insert -- , wherein the second sample-and-hold channel is coupled to the first sample-and-hold channel --.

### **Reasons for allowance**

The following is an examiner’s statement of reasons for allowance:

None of the prior art disclosed or suggested to show the particular structure and/or the particular operation recited in these claims namely: “the first sampling switch circuit is configured to be open during a hold phase ... is substantially equal to the sample voltage during the hold phase for the first sample and hold channel” as recited in claim 1; “an interleaved analog-to-digital conversion circuit” in combination with the details of “first – second sample-and-hold channels” as recited in claim 4; “a boost circuit” in combination with the details of “first and second sample-and-hold channel” as recited in claim 5; “a boost circuit” and the details for “a holding switch circuit” in combination with “a first sampling switch circuit” and “a sampling capacitor circuit” as recited in claim 10; “a means for providing a boosted signal” and the details of “a means for coupling a second node to a third node during a hold phase” in combination with “a means for coupling a first node” and “a means for storing” as recited in claim 20; “a boost circuit” in combination with “a processing circuit” and “a sample-and-hold circuit” as recited in claim 21; “a boost circuit” in combination with “a

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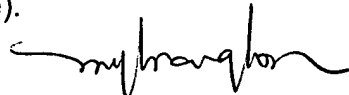
processing circuit" and "first – second sample-and-hold channel" as recited in claim 22.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to My-Trang N. Ton whose telephone number is 571-272-1754. The examiner can normally be reached on 7:00 a.m - 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



My-Trang N. Ton  
Primary Examiner  
Art Unit 2816

September 30, 2005